Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	AMPA Receptor Trafficking Regulates Social Behaviors in Autism	$408,750	2.1	Johns Hopkins University
National Institutes of Health	Synaptic Pathophysiology of the 16p11.2 Microdeletion Mouse Model	$531,026	2.2	Massachusetts Institute of Technology
Brain & Behavior Research Foundation	The Use of AAV-mediated CRISPR-Cas9 to Determine The Effect of Non-coding Genetic Variation on a Molecular Phenotype Relevant to Autism	$0	2.1	Emory University
National Institutes of Health	Genetic Regulation of Variability in Brain Oxytocin Receptors	$569,017	2.1	Emory University
National Institutes of Health	Dynamic RNA Modifications in Human Brain Development and Autism	$953,067	2.1	Emory University
National Institutes of Health	Characterization of a Novel Population of Parvocellular Oxytocin Neurons Controlling Social Reward Learning	$491,250	2.1	Johns Hopkins University
National Institutes of Health	Dissecting Recurrent Microdeletion Syndromes Using Dual-Guide Genome Editing	$580,798	2.1	Massachusetts General Hospital
National Institutes of Health	Mechanisms and Rescue of Neural Circuit Dysfunction in Mecp2 Mutant Mice	$249,000	2.1	George Washington University
National Institutes of Health	Role of Autism-Linked Genes in Developmental Refinement of the Corpus Callosum	$437,500	2.1	Children’s Research Institute, Children's National Medical Center
National Institutes of Health	Role of Autism-Linked Genes in Developmental Refinement of the Corpus Callosum	$113,731	2.1	Children’s Research Institute, Children's National Medical Center
Simons Foundation	Cellular models for autism de novo mutations using human stem cells	$125,000	2.Core/Other	Broad Institute, Inc.
Brain & Behavior Research Foundation	The Study of Homeostatic Downscaling in Psychiatric Disorders	$0	2.1	University of Illinois at Urbana-Champaign
Department of Defense - Army	Autism-Associated Mutations in L-Type Ca2+ Channels	$0	2.1	Northwestern University
Department of Defense - Army	Autism-Associated Mutations in L-Type Ca2+ Channels	$0	2.1	Northwestern University
FRAXA Research Foundation (FRAXA)	MicroRNA Mediated Astroglial GLT1 Dysregulation in Fragile X	$0	2.1	Tufts University
Simons Foundation	Striatal circuit dysfunction in a novel autism mouse model	$0	2.1	Northwestern University Feinberg School of Medicine
National Institutes of Health	Neurotrophic Factor Regulation of Gene Expression	$623,443	2.1	Harvard Medical School
National Institutes of Health	Mechanotransduction C. Elegans	$588,908	2.1	Massachusetts General Hospital
National Institutes of Health	Neuronal Activity-Dependent Regulation of MeCP2	$547,924	2.1	Harvard Medical School
National Institutes of Health	Circuit-level substrates of ASD-related cognitive and behavioral impairments	$860,721	2.1	Scripps Florida

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Development and Afferent Regulation of Auditory Neurons	$380,000	2.1	Florida State University
National Institutes of Health	Regulation of mTOR Signaling in the Developing Cerebral Cortex as a Point of Convergence for Multiple Autism Risk Factors	$480,000	2.1	Scripps Florida
Autism Speaks	Regulation of Cortical Circuit Assembly by Syngap1	$32,000	2.1	The Scripps Research Institute, FL
National Institutes of Health	Functional Genomics of Human Brain Development	$1,297,265	2.1	Yale University
National Institutes of Health	Neurobiology of Autism with Macrocephaly	$584,101	2.1	Yale University
Simons Foundation	Restoring GABA inhibition in a Rett syndrome mouse model by tuning a kinase-regulated Cl- rheostat	$133,678	2.1	Yale University
Simons Foundation	The Jackson Laboratory	$89,400	2.1	The Jackson Laboratory
National Institutes of Health	Dysregulation of Protein Synthesis in Fragile X Syndrome and Other Developmental Disorders	$1,582,883	2.2	National Institute of Health - Intramural
National Institutes of Health	Regulation of Neuroligins and Effects on Synapse Number and Function	$1,309,907	2.1	National Institute of Health - Intramural
National Institutes of Health	Functional Analysis of Neuroligin-Neurexin Interactions in Synaptic Transmission	$366,406	2.1	Univ of Massachusetts Med Sch Worcester
Brain & Behavior Research Foundation	High-throughput Quantitative Analysis of Enhancer Elements Associated with ASD	$0	2.1	Yale University
Brain & Behavior Research Foundation	Exploring Tridimensional Chromatin Interactions in ASD-derived Brain Organoids	$0	2.1	Yale University
National Institutes of Health	Role of Gabaergic Interneurons in Developmental Dysregulation of Cortical Function	$418,311	2.1	Yale University
Simons Foundation	Effect of Autism risk genes in neural cell identity using single cell seq	$275,000	2.1	Yale University
Simons Foundation	Mapping ASD regulatory networks at cellular resolution in neurodevelopment	$275,000	2.1	Yale University
National Institutes of Health	Mapping Regulatory Networks of Autism Risk at Cellular Resolution during Neurodevelopment	$154,085	2.1	Yale University
FRAXA Research Foundation (FRAXA)	Quantitative Assessment of the Serotonin System in a Mouse Model of Fragile X Syndrome	$0	2.1	Mercer University
National Institutes of Health	Axonal Transport Regulates Synaptic Function and Axonal Homeostasis	$1,732,619	2.1	NIH Intramural Program
Brain & Behavior Research Foundation	Inhibitory Synaptic Dysfunction in Autism Spectrum Disorder	$35,000	2.1	Yale University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	High-Throughput Functional Analysis of Autism Risk Genes	$418,750	2.1	Yale University
National Institutes of Health	1/3 Chromatin Regulation During Brain Development and in ASD	$550,583	2.1	Yale University
Simons Foundation	Exploring Sex Differences in ASD via the NRXN1 KO Rat	$75,000	2.CC	University of Maryland, College Park
Simons Foundation	The role of PTCHD1 in thalamic reticular nucleus function and ASD	$0	2.1	Massachusetts Institute of Technology
Simons Foundation	Molecular consequences of strong effect ASD mutations including 16p11.2	$100,000	2.1	Massachusetts General Hospital
Tuberous Sclerosis Alliance (TSA)	Administrative Core Support for Developmental Synaptopathies Associated with TSC, PTEN and SHANK3 Mutations	$25,568	2.3	Boston Children's Hospital
National Institutes of Health	MET Receptor Tyrosine Kinase and the Development of Forebrain Circuits	$383,750	2.1	University of Arizona
Simons Foundation	Do VIP interneurons drive abnormal prefrontal circuit function in autism?	$75,000	2.1	University of California, San Francisco
National Institutes of Health	Characterizing the CHD8 Complex to Determine its Role in Autism Spectrum Disorder	$18,399	2.1	Stanford University
National Institutes of Health	Dendrite Morphogenesis, Function and Regeneration	$554,750	2.1	University of California, San Francisco
National Institutes of Health	Molecular and Neural Networks Underlying Social Attachment	$615,653	2.1	STANFORD UNIVERSITY
Brain & Behavior Research Foundation	Dopaminergic Dysregulation in Mouse Models of Autism Spectrum Disorder	$17,500	2.1	University of California, Berkeley
Simons Foundation	Expression and characterization of the neuron-specific potassium chloride cotransporter, KCC2	$0	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
Autism Science Foundation	Determining the nature and function of the SCN2A mutation in ASD	$35,000	2.1	University of California, San Francisco
National Institutes of Health	Visualization of Oxytocin Receptor for Translational Social Neuroscience	$231,600	2.1	University of California at Davis
Simons Foundation	Biochemical Analysis of ASD Mutations in SYNGAP1	$80,000	2.1	The Regents of the University of California, San Francisco (Contracts and Grants)
National Institutes of Health	Identification of Neural Mechanisms Linking Autism-Risk Gene Disruptions with Impaired Social Behavior	$128,601	2.1	University of California Los Angeles
National Institutes of Health	Identifying Phenotypic Convergence Among Autism Spectrum Disorder (ASD) Genes Using CRISPR/Cas9 in Xenopus	$196,250	2.1	University of California Berkeley
Autism Speaks	Identifying Astrocyte-Secreted Protein Factors Linked to Altered Neuronal Development in ASD	$32,000	2.1	Salk Institute for Biological Studies

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Glutamatergic Synapse Formation and Function	$387,500	2.1	University of California, San Diego
National Institutes of Health	Defining the Molecular Basis of Autism Caused by Inherited Null Mutations in BAF53B	$36,305	2.1	Stanford University
Simons Foundation	Chromatin mechanisms of gene repression in ASD and cortical development	$275,000	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
National Institutes of Health	Scalable Technologies for Genome Engineering in hIPSCS	$408,610	2.1	University of California, San Diego
National Institutes of Health	Personalized Treatment of Cognitive Deficits Associated with Deletion of CACNG2	$193,750	2.1	University of California, San Diego
Simons Foundation	BAF53b (Actl6b) in Autism and Neurodevelopmental Disorders	$275,000	2.1	Stanford University
Simons Foundation	Cell Type Specificity of ASD Risk Factors in Developing Human Brain	$82,500	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
National Institutes of Health	High Content Assays for Cellular and Synaptic Phenotypes	$523,284	2.Core/Other	University of California, San Diego
National Institutes of Health	Reproducible Protocols for Robust Cortical Neuron and Astroglial Differentiation	$554,873	2.Core/Other	University of California, San Diego
Simons Foundation	Functional and behavioral analysis of zebrafish ASD models	$74,982	2.1	University of Queensland
Brain & Behavior Research Foundation	Investigating the Function of Autism Candidate Gene LIN-2/CASK in Cholinergic Synapse	$17,425	2.1	University of Queensland
Simons Foundation	USP9X: A master gene for neural development and autism	$0	2.1	University of Queensland
National Institutes of Health	Single-Cell Approaches to Deconvolution of Disease-Associated Signals	$837,955	2.Core/Other	University of California, San Diego
National Institutes of Health	Heparan Sulfate in Neurophysiology and Neurological Disorders	$425,231	2.1	Sanford Burnham Prebys Medical Discovery Institute
National Institutes of Health	1/2 Cross Modal Integration of Molecular and Physiological Networks in ASD	$1,083,373	2.1	University of California Los Angeles
National Institutes of Health	Cross Modal Integration of Molecular and Physiological Networks in ASD (2/2)	$804,886	2.1	Stanford University
Simons Foundation	Multi-model platform for functionalizing ASD variants and drug testing	$162,500	2.1	University of British Columbia
National Institutes of Health	Gaining Insight into Psychiatric Disease by Engineering Piece by Piece the Human Brain In Vitro.	$491,734	2.1	Stanford University
Simons Foundation	The influence of ASD-risk genes on synaptic function in the basal ganglia	$275,000	2.1	The Regents of the University of California, Berkeley
Simons Foundation	Uncovering Trio's role in Autism Spectrum Disorder	$75,000	2.1	University of Southern California

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	Molecular mechanisms of sensory transduction in the gut	$150,000	2.2	The Regents of the University of California, San Francisco (Contracts & Grants)
Simons Foundation	Elucidating the signaling pathways involved in autism spectrum disorder	$150,000	2.1	The Regents of the University of California (Davis)
National Institutes of Health	Tools for Manipulating Local Protein Synthesis in the Brain	$172,800	2.1	University of Toronto
National Institutes of Health	Function and Structure Adaptations in Forebrain Development	$590,225	2.1	Children's Hospital of Los Angeles
National Institutes of Health	Induced Neuronal Cells: A Novel Tool to Study Neuropsychiatric Diseases	$615,259	2.1	Stanford University
Simons Foundation	The neuronal reprogramming factor and autism-associated gene Myt1l	$275,000	2.1	Stanford University
Simons Foundation	The role of the PTCHD1-antisense long noncoding RNA in Autism.	$196,088	2.1	The Hospital for Sick Children
FRAXA Research Foundation (FRAXA)	Metformin and Aberrant Insulin Signaling in a Fragile X Mouse Model	$0	2.1	McGill University
National Institutes of Health	Dissecting Neural Mechanisms Integrating Multiple Inputs in C.Elegans	$481,000	2.1	Salk Institute For Biological Studies
National Institutes of Health	Role of DYRK1A/MNB in Synaptic Growth and Function	$453,361	2.1	University of Southern California
Brain & Behavior Research Foundation	Dysregulation of Integrated Stress Response (ISR) Pathway In Autism	$17,500	2.1	McGill University
Simons Foundation	Mechanistic studies of the interaction between Shank3 and CaMKIIa	$240,000	2.1	The Hong Kong University of Science and Technology
FRAXA Research Foundation (FRAXA)	Research Points to Drugs which Inhibit PDE to Treat Fragile X	$0	2.1	INSERM
National Institutes of Health	Proteogenetics of Autism Spectrum Disorders	$608,199	2.1	Scripps Research Institute
Simons Foundation	Neurobiology of Rai1, a critical gene for syndromic ASDs	$87,500	2.1	Stanford University
Autism Speaks	Impact of Familial ASD Risk on Functional Brain Connectivity in Infants	$32,000	2.1	University of California, Los Angeles
Simons Foundation	Exploring RAT model for 16p11.2 syndrome	$91,553	2.1	Institut de Genetique et de Biologie Moleculaire et Cellulaire (CERBM)
Simons Foundation	Generating a new Del(Sult1a1-Spn) 16p11.2 deletion model in Long-Evans Rat	$0	2.1	Institut de Genetique et de Biologie Moleculaire et Cellulaire (CERBM)
Simons Foundation	Neurobiological basis of connectivity deficits in autism	$65,568	2.1	Fondazione Istituto Italiano di Tecnologia (Italian Institute of Technology)
National Institutes of Health	The Psychiatric Cell Map Initiative: Connecting Genomics, Subcellular Networks, and Higher Order Phenotypes	$3,641,916	2.1	University of California, San Francisco

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Brain & Behavior Research Foundation	Identifying Convergent and Divergent Autism-Associated Molecular Pathways Using in Vivo Pooled Screening and Single Cell RNA Profiling	$35,000	2.1	ETH Zurich
Simons Foundation	Tracing abnormal developmental trajectories in cortical neurons	$114,525	2.1	University of Geneva
Simons Foundation	Leveraging a high-throughput CRISPR screen to uncover convergent phenotypes across autism genes	$80,000	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
Simons Foundation	Intersection of Autism Genetics and Homeostatic Plasticity	$0	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
Brain & Behavior Research Foundation	Interrogating Synaptic Transmission in Human Neurons	$0	2.1	Stanford University
Brain & Behavior Research Foundation	Investigating the Role of Homeostatic Plasticity in Autism Spectrum Disorder	$0	2.1	King's College London
Simons Foundation	Mechanisms that Connect Autism with Homeostatic Synaptic Plasticity	$125,000	2.1	University of California, San Francisco
Brain & Behavior Research Foundation	Using Targeted Genome Editing to Generate Novel Preclinical Rodent Models of Autism	$35,000	2.1	University of Edinburgh
National Institutes of Health	Altered Dopamine Transporter Function in Autism	$29,400	2.1	University of Alabama at Birmingham
National Institutes of Health	Cortical Spread of Hippocampal Hyperactivity in Rett Syndrome	$457,549	2.1	University of Alabama at Birmingham
National Institutes of Health	The Role of Foxp1-Regulated Signaling Pathways in Brain Development and Behavior	$405,000	2.1	Ut Southwestern Medical Center
Simons Foundation	Pilot study to evaluate molecular changes in the brain of Chd8 mutant mice as a function of age	$200,000	2.1	The University of North Carolina at Chapel Hill
National Institutes of Health	Role of Brg1 in Activity-Induced Neuronal Gene Expression and Synaptic Plasticity	$352,407	2.1	Ut Southwestern Medical Center
Simons Foundation	Defining the Translational Landscape in Mouse Models of Autism - Project 1	$137,500	2.1	University of Texas Southwestern Medical Center
Simons Foundation	Canonical Computations in Autism	$137,070	2.1	Baylor College of Medicine
Simons Foundation	Foxp1 orchestration of neuronal function in the striatum	$74,425	2.1	University of Texas Southwestern Medical Center
Simons Foundation	Activity-regulated transcription and ASD genes in synapse pruning	$82,500	2.1	UT Southwestern Medical Center
National Institutes of Health	Neural Function of the Human Memory-Associated Protein KIBRA: Bridging Molecular to Circuit-Level Function	$405,000	2.1	Ut Southwestern Medical Center
Simons Foundation	Glial control of neuron shape and function	$82,500	2.1	Fred Hutchinson Cancer Research Center

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Localizing Abnormalities in Goal-Directed Behavior to Striatal Circuits in the Neurexin1 Mouse Model	$31,589	2.1	University of Pennsylvania
Brain & Behavior Research Foundation	The Role of UBE3B in the Pathogenesis of Autism Spectrum Disorder	$0	2.1	University of Texas Southwestern Medical Center
Brain & Behavior Research Foundation	SRPX2 Regulation of Synapse Formation: Implications for Schizophrenia and Autism Spectrum Disorder	$0	2.1	University of Texas Health Science Center at San Antonio
Simons Foundation	Pathogenic Gating Pore Current in Autism	$0	2.1	University of Washington
National Institutes of Health	Synaptotagmin C2B Domain as a Ca2+ Sensing Module	$376,140	2.1	University of Wisconsin-Madison
National Institutes of Health	Spastic Paraplegia, Neurodegeneration and Autism: Possible Role for AT-1/SLC33A1?	$330,978	2.1	University of Wisconsin-Madison
Autism Research Institute	Proteomic Analysis of Autistic Brain Part 2: A Validation Study	$30,200	2.1	Cleveland Clinic
Simons Foundation	The role of silent synapses in the etiology of autism	$70,000	2.1	University of Pittsburgh
National Institutes of Health	Investigating the Mechanism of Optic Nerve Hypoplasia Associated with CASK Mutation	$402,500	2.2	Virginia Polytechnic Inst and St Univ
National Institutes of Health	Foxp2 Regulation of Sex Specific Transcriptional Pathways and Brain Development	$237,932	2.CC	Virginia Polytechnic Inst and St Univ
National Institutes of Health	Age-Dependent Dysfunction of GABAergic Neurotransmission Due to Autism-Associated mTOR Pathway Activation	$97,305	2.CC	University of Virginia
Autism Science Foundation	Undergraduate Research Award	$3,000	2.1	University of Wisconsin
National Institutes of Health	A Conserved Transcriptional Cascade Involved in Brain Overgrowth, Social Behavior and Autism	$733,979	2.1	Case Western Reserve University
Simons Foundation	Epitranscriptomic regulation of ASD risk genes	$162,500	2.1	The Trustees of the University of Pennsylvania
Simons Foundation	Mechanistic insight into autism from a sex-specific induction model	$150,000	2.CC	The Rector and Visitors of the University of Virginia
National Institutes of Health	Mechanism-Targeted Treatment Strategy in PTEN-Associated Autism and Epilepsy	$253,204	2.1	Cincinnati Children's Hospital Medical Center
National Institutes of Health	Mechanisms of Circuit Failure and Treatments in Patient-Derived Neurons in Autism	$406,250	2.1	Brown University
National Institutes of Health	Autism-Linked Endosomal Mechanisms in Neuronal Arborization and Connectivity	$406,250	2.1	Brown University
Simons Foundation	Assessing thalamocortical circuit function in TSC1 and NHE6 mouse models	$75,000	2.1	Brown University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Mechanisms of Circuit Failure and Treatments in Patient-Derived Neurons in Autism	$369,162	2.1	Brown University
Autism Research Institute	To determine the minicolumnar morphometry of autistic, 15q dup and various Shank3 mutant mouse models as compared to those in control tissue.	$20,000	2.1	University of South Carolina, Greenville
National Institutes of Health	Molecular Mechanisms of Electrical Synapse Formation In Vivo	$249,000	2.1	University of Oregon
National Institutes of Health	Characterizing Patient-specific TBR1 Mutations: Understanding a Master Regulator of Autism Risk	$499,244	2.1	Oregon Health & Science University
National Institutes of Health	Transcriptional Regulation of Synapse Development in Intellectual and Developmental Disorders	$373,750	2.1	Medical University of South Carolina
National Institutes of Health	Massively Parallel Functional Analyses of Human PTEN Variants	$44,524	2.1	Oregon Health & Science University
Brain & Behavior Research Foundation	In vivo Imaging of Prefrontal Cortical Activity During Social Interactions in Normal and Autism Mice	$17,500	2.1	Duke University
Brain & Behavior Research Foundation	Synaptic Homeostasis of the Homer1 Network in a Shank3 Model of Autism	$17,500	2.1	Seattle Children's Research Institute
National Institutes of Health	Endocannabinoids in Social and Repetitive Behavioral Domains	$23,289	2.1	Vanderbilt University
National Institutes of Health	Role of Autism Susceptibility Gene, TAOK2 Kinase, and its Novel Substrates in Synaptogenesis	$249,000	2.1	University of Washington
National Institutes of Health	Investigating the Synaptic Pathology of Autism	$521,823	2.1	Seattle Children's Hospital
Simons Foundation	Foxp1-regulated cell-type specific contributions to striatal development	$161,276	2.1	UT Southwestern Medical Center
Simons Foundation	Elucidation of the Bidirectional Role of Microglia in Fragile X Syndrome	$0	2.1	Univ of Texas Health Science Center at San Antonio
Simons Foundation	Identification of shared transcriptional profiles with three high-confidence autism mouse models	$110,000	2.1	Univ of North Carolina, Chapel Hill
Simons Foundation	Does Astrocyte Dysfunction Contribute to Synaptic Pathologies in Autism?	$75,000	2.1	Duke University Medical Center
Simons Foundation	Spatiotemporal dissection of UBE3A with engineered human cerebral organoids	$0	2.1	North Carolina State University
National Institutes of Health	A Novel Paradigm to Dissect the Function Connectivity in Shank3 Autism Model	$238,500	2.1	Duke University
National Institutes of Health	Mechanisms of Developmental Spine Pruning Regulated by IgCAMs and Semaphorins	$388,750	2.1	Univ of North Carolina Chapel Hill

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Brain & Behavior Research Foundation	Above the Noise: RNA-Seq Analysis of MeCP2 and Non-MeCP2 Rett Syndrome Autopsy Samples	$17,500	2.1	Vanderbilt University
Brain & Behavior Research Foundation	From Synaptic Dysfunction to Abnormal Brain Connectivity in Autism	$0	2.1	University of Utah
National Institutes of Health	Development of a Selective Metabotropic Glutamate Receptor 7 Allosteric Modulator Probe	$400,356	2.1	Vanderbilt University
Brain & Behavior Research Foundation	Altered Synaptic Autophagy as a Mouse Model for Autism	$35,000	2.1	University of Utah
National Institutes of Health	Cellular and Molecular Mechanisms Disrupted in 22q13 Deletion Syndrome and Autism	$380,626	2.1	University of Utah
Brain & Behavior Research Foundation	Modulation of Excitatory Synaptic Transmission in Mental Illnesses	$0	2.1	Vanderbilt University
National Institutes of Health	Deciphering High Function Autism Using Mice with Human De Novo ANK2 Mutations	$200,000	2.1	Duke University
National Institutes of Health	Dopamine Transporter Dysfunction in Autism Spectrum Disorder	$29,204	2.1	Vanderbilt University
Department of Defense - Army	Forward Genetic Screen to Identify Novel Therapeutic Entry Points of an Autism Spectrum Disorder	$0	2.1	Baylor College of Medicine
Autism Science Foundation	Understanding the genetic influence of brain circuitry in ASD	$35,000	2.1	University of Texas Southwestern Medical Center
National Institutes of Health	3/3 Chromatin Regulation During Brain Development and in ASD	$355,941	2.1	Duke University
National Institutes of Health	Altered Ionotropic Receptor Maturation in the Impaired Auditory Critical Periods of Fmr1 Knockout Mice	$44,524	2.1	University of Pennsylvania
National Institutes of Health	Regulation of Experience-Dependent Cortical Circuit Development by MEF2C and Genes Linked to Neurodevelopmental Disorders	$399,770	2.1	Ut Southwestern Medical Center
National Institutes of Health	Optical Imaging Tools for Elucidating the Roles of Anions and Anionic Modifications in Cellular Signaling	$382,500	2.1	University of Texas Dallas
Simons Foundation	ASXL3 in Neural Fate Commitment and Autism Spectrum Disorder	$75,000	2.1	The Regents of the University of Michigan
National Institutes of Health	Role of Histone Ubiquitination in Neurodevelopment and Disease	$415,708	2.1	University of Michigan at Ann Arbor
Brain & Behavior Research Foundation	Cellular Mechanisms Controlling White Matter Connectivity: Making Sense of a Genetic Risk Factor for Autism and Schizophrenia	$0	2.1	Columbia University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
FRAXA Research Foundation (FRAXA)	Correcting Fragile X Syndrome Deficits by Targeting Neonatal PKCepsilon Signaling in the Brain	$0	2.1	College of Staten Island
FRAXA Research Foundation (FRAXA)	Autophagy is a Novel Therapeutic Target of Impaired Cognition in Fragile X Syndrome	$0	2.1	Albert Einsteign College of Medicine
Simons Foundation	Synaptic refinement and glial phagocytosis in a mammalian model of Fragile X Syndrome	$80,000	2.1	The Trustees of Columbia University in the City of New York
Simons Foundation	Cell-type-specific brain networks perturbed by genetics in autism	$272,588	2.1	Broad Institute, Inc.
Simons Foundation	Mechanisms of cortical plasticity in autism spectrum disorder	$82,500	2.1	The Regents of the University of Michigan
National Institutes of Health	L1CAM Adhesion and Signaling Pathways in C. Elegans	$327,597	2.1	University of Minnesota
National Institutes of Health	Neuronal Adaptation and Plasticity after Chronic Disuse	$423,750	2.1	New York University School of Medicine
National Institutes of Health	Engrailed Genes and Cerebellum Morphology, Spatial Gene Expression and Circuitry	$639,375	2.1	Sloan-Kettering Inst Can Research
National Institutes of Health	2/3 Chromatin Regulation During Brain Development and in ASD	$129,927	2.1	Mayo Clinic Rochester
National Institutes of Health	Adult Neurogenesis and Executive Function	$208,772	2.1	Albert Einsteign College of Medicine
National Institutes of Health	Optogenetic Monitoring and Modulation of Nucleus Accumbens Microcircuitry in Cognition	$59,038	2.1	University of Minnesota
National Institutes of Health	Neurodevelopmental Phenotypes in MLL Mutant Mice	$419,004	2.1	Icahn School of Medicine at Mount Sinai
Autism Speaks	The impact of MECP2 mutation in gabaergic interneurons on plasticity in the auditory cortex	$20,000	2.1	Cold Spring Harbor Laboratory
Simons Foundation	Developmental origins of the female protective effect in autism	$80,000	2.CC	Cold Spring Harbor Laboratory
Simons Foundation	Role of a novel PRCI complex in neurodevelopment and ASD neurobiology	$112,500	2.1	New York University School of Medicine
Brain & Behavior Research Foundation	Molecular Dimorphism in the Locus Coeruleus May Mediate Sex-specific Differences in Psychiatric Disease Risk	$50,000	2.CC	Washington University in St. Louis
Simons Foundation	Defining the Translational Landscape in Mouse Models of Autism - Core	$137,500	2.1	University of Massachusetts Medical School
Simons Foundation	Development of corticothalamic circuits of prefrontal cortex in mouse models of autism	$75,000	2.1	Boston Children's Hospital
National Institutes of Health	Modeling ASD-Linked Genetic Mutations in 3D Human Brain Organoids	$571,066	2.1	Harvard University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	The role of glial CHD2 in synaptic homeostatic plasticity and autism	$0	2.1	Georgetown University
National Institutes of Health	The Impact of PTEN Signaling on Neuronal Form and Function	$450,559	2.1	Dartmouth College
National Institutes of Health	The Role of Kit Signaling in Cerebellar Development	$103,005	2.1	Dartmouth College
The NJ Governor's Council for Medical Research and Treatment of Autism (NJMRTA)	Immune Regulation of Subventricular Zone Neural Stem	$0	2.1	Rutgers University, Biomedical and Health Sciences (RBHS)
The NJ Governor's Council for Medical Research and Treatment of Autism (NJMRTA)	Developmental Dysregulation of Inhibitory Neuron Migration as an Experimental Model to Analyze Mechanisms of Pediatric Autism-Epilepsy Syndromes	$0	2.1	Rutgers, The State University
National Institutes of Health	Endoplasmic Reticulum Stress as a Novel Mechanism of Synaptic Dysfunction in Autism-Associated NLGN3 R451C Human Neurons	$38,788	2.1	Rbhs-Robert Wood Johnson Medical School
Simons Foundation	Autophagy pathway alterations in lymphocytes: Potential biomarkers for autism?	$75,000	2.1	Columbia University
National Institutes of Health	VTA VGluT2 Sociability Circuit in Genetic Autism	$437,500	2.1	Beth Israel Deaconess Medical Center
National Institutes of Health	Control of Neuronal Transcriptional Elongation by Brd4 and its Contribution to Autism	$41,724	2.1	Icahn School of Medicine at Mount Sinai
National Institutes of Health	Striatal Specific Altertations in Translation, Synaptic Function, and Behavior in	$249,000	2.1	Columbia University Health Sciences
Simons Foundation	Structural Biological Studies of the Soluble and Membrane Regions of KCC2	$126,163	2.1	New York Structural Biology Center
Simons Foundation	Comparison of iPSC reprogramming methods from 16p11.2 microdeletion patient derived tissue	$0	2.1	President & Fellows of Harvard College
Brain & Behavior Research Foundation	Microglia-dependent Regulation of Inhibitory Brain Circuits in Health and Disease	$0	2.1	University of Massachusetts Medical SchoolUniversity of Massachusetts, Amherst
Simons Foundation	Investigating the mechanism of FMRP dysregulation with loss of TSC2	$79,879	2.1	Children's Hospital Boston
Simons Foundation	Establishment of Parallel Cortico-Basal Ganglia Circuits by ASD-Linked Pcdh	$81,485	2.1	Children's Hospital Boston
National Institutes of Health	Dysfunction of Distinct Amygdala Circuits in a 16p11.2 Model of Autism	$240,000	2.1	Cold Spring Harbor Laboratory
National Institutes of Health	Simultaneous Multiplexed In Situ Fluorescence Imaging of Neuronal Proteins and Messenger RNAs	$400,900	2.1	Massachusetts Institute of Technology
National Institutes of Health	Regulation of Mammalian Social Behavior by the Gtf2i Family of Proteins	$504,828	2.1	Washington University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Brain & Behavior Research Foundation	Understanding Disruption of Neuronal DNA Methylation in Disorders of Cognition	$17,500	2.1	Washington University in St. Louis
Simons Foundation	A novel method for revealing the shared molecular pathways of autism genes	$0	2.1	Washington University in St. Louis
National Institutes of Health	Location-Dependent Signaling of MGLU5 in Models of Synaptic Plasticity Using CRISPR-Targeted Mice	$228,750	2.1	Washington University
National Institutes of Health	Characterizing Maladaptive Homeostatic Plasticity in an Animal Model of ASD	$44,524	2.1	New York University School of Medicine
Autism Speaks	Molecular control of developing corticostriatal circuits and behaviors in an autism model	$0	2.1	Icahn School of Medicine at Mount Sinai
Simons Foundation	Oxytocin receptor signaling	$70,000	2.1	New York University School of Medicine
Simons Foundation	Developmental changes in a mouse model of UBE3A hyperactivation	$150,000	2.1	Washington University in St. Louis
Simons Foundation	Exploring disruption of DNA methylation in autism spectrum disorders	$150,000	2.1	Washington University in St. Louis
Brain & Behavior Research Foundation	Mechanisms of UBE3A Dysfunction in Brain Development	$35,000	2.1	Washington University School of Medicine
National Institutes of Health	Understanding Transcriptional Mechanisms Critical for Neural Development	$30,442	2.1	Washington University
National Institutes of Health	Development of Corticostriatal Networks in Health and Disease	$44,364	2.1	Icahn School of Medicine at Mount Sinai